



## V2801SG / V2801RD

1\*XPON+1GE ONU

### Key Features:



XPON Dual Mode  
Automatically Access to EPON/GPON



Detecting  
Rogue ONU



Powerful Firewall



Wide Working Temp  
-30°C~+60°C

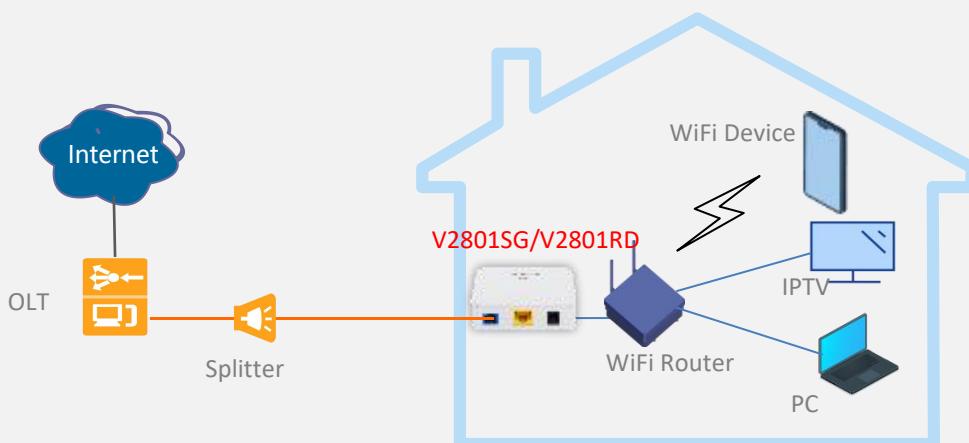


### Introduction:

V2801SG / V2801RD( XPON 1GE ONU ) is specially designed to meet the needs of telecom operators for FTTO (office), FTTD (desktop), FTTH (home), SOHO broadband access, video surveillance, etc. The ONU is based on high-performance chip technology solutions, and supports Layer 2/Layer 3 functions, providing data services for carrier-grade FTTH applications.

The ONT has high reliability and can be applied to a wide temperature environment; and has a powerful firewall function, which is easy to manage and maintain. It can provide QoS guarantee for different services. The ONT complies with international technical standards such as IEEE802.3ah and ITU-T G.984.

### Application Chart:



## O Hardware Parameter

Dimension	82mm×82mm×25mm(L×W×H)
Net weight	0.085Kg
Operating condition	<ul style="list-style-type: none"> <li>• Operating temp: -30 ~ +60°C</li> <li>• Operating humidity: 10 ~ 90% (non-condensing)</li> </ul>
Storing condition	<ul style="list-style-type: none"> <li>• Storing temp: -30 ~ +70°C</li> <li>• Storing humidity: 10 ~ 90% (non-condensing)</li> </ul>
Power adapter	DC 12V, 0.5A, external AC-DC power adaptor
Power supply	≤4W
Interfaces	1GE
Indicators	SYS, LINK/ACT, REG

## O Interface Parameter

PON interface	<ul style="list-style-type: none"> <li>• 1 XPON port(EPON PX20+ &amp; GPON Class B+)</li> <li>• SC single mode, SC/UPC connector</li> <li>• TX optical power: 0~+4dBm</li> <li>• RX sensitivity: -27dBm</li> <li>• Overload optical power: -3dBm(EPON) or -8dBm(GPON)</li> <li>• Transmission distance: 20KM</li> <li>• Wavelength: TX 1310nm, RX1490nm</li> </ul>
LAN interface	1*GE, Auto-negotiation RJ45 connectors

## O Function Data

XPON Mode	Dual mode,Auto-access to EPON/GPON OLT
Uplink Mode	Bridging and Routing Mode
Abnormal protection	Detecting Rogue ONU, Hardware Dying Gasp
Firewall	DDOS, Filtering Based on ACL/MAC/URL

## O Product Feature

Basic	<ul style="list-style-type: none"> <li>• Support MPCP discover&amp;register</li> <li>• Support authentication Mac/Loid/Mac+Loid</li> <li>• Support Triple Churning</li> <li>• Support DBA bandwidth</li> <li>• Support auto-detecting, auto-configuration, and auto firmware upgrade</li> <li>• Support SN/Psw/Loid/Loid+Psw authentication</li> </ul>
Alarm	<ul style="list-style-type: none"> <li>• Support Dying Gasp</li> <li>• Support Port Loop Detect</li> <li>• Support Eth Port Los</li> </ul>
LAN	<ul style="list-style-type: none"> <li>• Support Port rate limiting</li> <li>• Support Loop detection</li> <li>• Support Flow control</li> <li>• Support Storm control</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• Support VLAN tag mode</li> <li>• Support VLAN transparent mode</li> <li>• Support VLAN trunk mode(max 8 vlans)</li> <li>• Support VLAN 1:1 translation mode(≤8 vlans)</li> <li>• Auto VLAN detection</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>• Support IGMPv1/v2/Snooping</li> <li>• Max Multicast vlan 8</li> <li>• Max Multicast Group 64</li> </ul>
QOS	<ul style="list-style-type: none"> <li>• Support 4 queues</li> <li>• Support SP and WRR</li> <li>• Support 802.1P</li> </ul>
L3	<ul style="list-style-type: none"> <li>• Support IPv4/IPv6</li> <li>• Support DHCP/PPPOE/Static IP</li> <li>• Support Static route</li> <li>• Support NAT</li> </ul>
Management	<ul style="list-style-type: none"> <li>• Support CTC OAM 2.0 and 2.1</li> <li>• Support ITUT984.x OMCI</li> <li>• Support WEB</li> <li>• Support TELNET</li> <li>• Support CLI</li> </ul>

Product Name	Product Description	Accessories
V2801SG/V2801RD	1GE	AC-DC power adaptor: DC12V/0.5A